

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Larsen et al.	Examiner:	UNKNOWN
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Title:	HEADSET		

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The undersigned hereby certifies that this Transmittal Letter and the paper or fee, as described herein, are being deposited with the United States Postal Service 'Express Mail Post Office To Addressee' service under 37 CFR 1.10 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231

By: 

Kari Arnold

PRELIMINARY AMENDMENT

Box Patent Application
Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Please enter the following preliminary amendment into the above-referenced application.

ABSTRACT

Please insert the attached abstract into the application as the last page thereof.

CLAIMS

Please amend claims 1-10 as follows. A clean copy of the entire set of claims is included below. A marked up copy of the amended claims is included in Appendix A.

1. (AMENDED) Headset for connection to a telephone apparatus, said headset comprising a capsule with a built-in receiver, and on which there is mounted a boom

with a microphone, said headset being connected to a telephone apparatus by means of a wire with associated jack connection, and with which headset there are associated amplification and adjustment circuits for both the microphone and the receiver, manual operation elements for the setting of said amplification and adjustment circuits, and switch elements for changeover depending partly on the type of microphone in the telephone apparatus and partly on the polarity of the telephone apparatus' microphone and receiver wires, wherein the amplification and adjustment circuits are built into the capsule, and in that the manual operation elements are placed on the capsule, and that the switch elements consist of a multi-position switch which is placed in the capsule in such a manner that it is accessible for operation.

2. (AMENDED) Headset according to claim 1, wherein the headset comprises an operating button for a switch for the headset microphone, and operating elements for the setting of the sound level from the headset receiver, said operating button and operating elements also serving as manual operating elements for the setting of said amplification and adjustment circuits.

3. (AMENDED) Headset according to claim 1, wherein the headset contains a micro-controller which transmits control signals to said amplification and adjustment circuits, said control signals being formed depending on settings undertaken by means of the manual operating elements.

4. (AMENDED) Headset according to claim 1, wherein the amplification and adjustment circuits for the headset receiver comprise a filter circuit in the form of a band-pass filter, the frequency band of which comprises frequencies which are normally contained in human speech, preferably a frequency band which is centred around approx. 800 Hz.

5. (AMENDED) Headset according to claim 4, wherein the filter circuit can be coupled in and de-coupled by means of the manual operating elements.

6. (AMENDED) Headset according to claim 1, wherein the amplification and adjustment circuits for the headset receiver comprise a voice-activated switch which reduces the amplification in the amplification circuits for the headset receiver when the signal which is transmitted in these circuits lies below a given level.

7. (AMENDED) Headset according to claim 6, wherein the voice-activated switch can be coupled in and de-coupled from the amplification and adjustment circuits for the headset receiver by means of the manual operating elements.

8. (AMENDED) Headset according to claim 1, wherein the amplification and adjustment circuits for the headset receiver comprise a detector which detects the level of the received signal and which, if this level lies below a given value in excess of a given time limit, gives rise to a reduction of the amplification in an output amplifier in

the amplification circuits for the headset receiver, or possibly results in the closing down of the output amplifier.

9. (AMENDED) Headset according to claim 1, wherein the amplification and adjustment circuits for the headset microphone comprise a voice-activated switch which reduces the amplification in the amplification circuits for the headset microphone when the signal which is transmitted in these circuits lies below a given level.

10. (AMENDED) Headset according to claim 1, wherein the amplification and adjustment circuits for the headset comprise a signal circuit which, depending on the state of the capacity of a battery built into the headset and/or the state of the headset set with the manual operating elements, can emit signals which can be heard in the headset receiver.

REMARKS

The above preliminary amendment is made to insert an abstract page into the application and to amend claims 1-10.

Applicant respectfully requests that this preliminary amendment be entered into the record prior to calculation of the filing fee and prior to examination and consideration of the above-identified application.

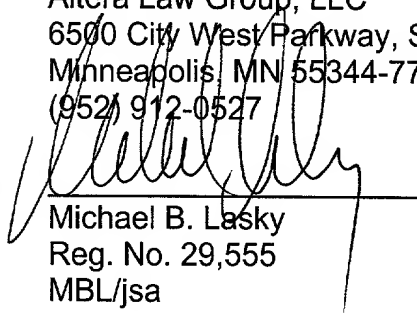
If a telephone conference would be helpful in resolving any issues concerning this communication, please contact Applicant's attorney of record, Michael B. Lasky at 952-912-0527.

Respectfully submitted,

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Appendix A
Marked Up Version of the Amended Claims

1. (AMENDED) Headset for connection to a telephone apparatus, said headset comprising a capsule [(2)] with a built-in receiver [(11)], and on which there is mounted a boom [(7)] with a microphone [(10)], said headset being connected to a telephone apparatus by means of a wire with associated jack connection [(31)], and with which headset there are associated amplification and adjustment circuits for both the microphone [(10)] and the receiver [(11)], manual operation elements for the setting of said amplification and adjustment circuits, and switch elements for changeover depending partly on the type of microphone in the telephone apparatus and partly on the polarity of the telephone apparatus' microphone and receiver wires, [c h a r a c t e r i z e d in that] wherein the amplification and adjustment circuits are built into the capsule [(2)], and in that the manual operation elements [(14, 15)] are placed on the capsule, and that the switch elements consist of a multi-position switch [(32)] which is placed in the capsule in such a manner that it is accessible for operation.

2. (AMENDED) Headset according to claim 1, [c h a r a c t e r i z e d in that] wherein the headset comprises an operating button [(14)] for a switch [(21)] for the headset microphone, and operating elements [(15)] for the setting of the sound level from the headset receiver, said operating button [(14)] and operating elements [(15)] also serving as manual operating elements for the setting of said amplification and adjustment circuits.

3. (AMENDED) Headset according to claim 1 [or 2], [c h a r a c t e r i z e d in that] wherein the headset contains a micro-controller [(35)] which transmits control signals to said amplification and adjustment circuits, said control signals being formed depending on settings undertaken by means of the manual operating elements [(14, 15)].

4. (AMENDED) Headset according to claim 1, [2 or 3, c h a r a c t e r i z e d in that] wherein the amplification and adjustment circuits for the headset receiver [(11)] comprise a filter circuit [(46)] in the form of a band-pass filter, the frequency band of which comprises frequencies which are normally contained in human speech, preferably a frequency band which is centred around approx. 800 Hz.

5. (AMENDED) Headset according to claim 4, [c h a r a c t e r i z e d in that] wherein the filter circuit [(46)] can be coupled in and de-coupled by means of the manual operating elements [(14, 15)].

6. (AMENDED) Headset according to [one or more of the] claim[s] 1 [– 5], [c h a r a c t e r i z e d in that] wherein the amplification and adjustment circuits for the headset receiver [(11)] comprise a voice-activated switch [(45)] which reduces the amplification in the amplification circuits for the headset receiver when the signal which is transmitted in these circuits lies below a given level.

7. (AMENDED) Headset according to claim 6, [c h a r a c t e r i z e d in that] wherein the voice-activated switch [(45)] can be coupled in and de-coupled from the amplification and adjustment circuits for the headset receiver [(11)] by means of the manual operating elements [(14, 15)].

8. (AMENDED) Headset according to [one or more of the] claim[s] 1[– 7], [c h a r a c t e r i z e d in that] wherein the amplification and adjustment circuits for the headset receiver [(11)] comprise a detector [(49)] which detects the level of the received signal and which, if this level lies below a given value in excess of a given time limit, gives rise to a reduction of the amplification in an output amplifier [(47)] in the amplification circuits for the headset receiver, or possibly results in the closing down of the output amplifier [(47)].

9. (AMENDED) Headset according to [one or more of the] claim[s] 1[– 8], [c h a r a c t e r i z e d in that] wherein the amplification and adjustment circuits for the headset microphone [(10)] comprise a voice-activated switch [(22)] which reduces the amplification in the amplification circuits for the headset microphone when the signal which is transmitted in these circuits lies below a given level.

10. (AMENDED) Headset according to [one or more of the] claim[s] 1[– 9], [c h a r a c t e r i z e d in that] wherein the amplification and adjustment circuits for the headset comprise a signal circuit [(37)] which, depending on the state of the capacity of a battery [(34)] built into the headset and/or the state of the headset set with the

manual operating elements [(14, 15)], can emit signals which can be heard in the headset receiver [(11)].

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ABSTRACT For HEADSET

Headset for connection to a telephone apparatus, said headset comprising a capsule with a built-in receiver, and on which there is mounted a boom with a microphone. The headset is connected to a telephone apparatus by means of a wire with associated jack connection, and the headset has associated amplification and adjustment circuits for both the microphone and receiver, manual operating elements for the setting of said amplification and adjustment circuits, and switch elements for changeover depending partly on the type of microphone in the telephone apparatus and partly on the polarity of the telephone apparatus' microphone and receiver wires. The amplification and adjustment circuits are built into the headset capsule, so that the use of a separate connection box is avoided, and the manual operation elements are placed on the capsule. The switching elements consist of a multi-position switch, which is placed in the capsule in such a manner that it is accessible for operation.